

Claims:

1. An enterprise code division multiplex access, CDMA, wireless communication system, comprising:
  - 5 a local area networks(LAN);
  - a plurality of wireless base stations coupled to said LAN, said wireless base stations coupled to communicate with wireless devices coupled within the enterprise wireless communication system via an internet
  - 10 protocol;
  - a maintenance and operations (M&O) server coupled to said LAN, said M&O server adapted to handle wired and wireless M&O clients communicating to or within the enterprise wireless communication system; and
  - 15 a Call Agent coupled to said LAN to process wireless calls from mobile communication units to the enterprise wireless communication system.
2. The system as recited in Claim 1, wherein said
- 20 plurality of wireless base stations include wireless call processing logic adapted to handle conventional wireless communication functions.
3. The system of claim 1, wherein said wireless
- 25 base station further includes a wireless operation and maintenance call processing logic adapted to handle wireless M&O client call requests to the M&O server.

4. The system of claim 3, wherein the wireless base station further includes call identification number negotiation logic for negotiating a unique call identification number between the M&O server and the  
5 wireless base station to enable remote wireless M&O clients to communicate with the M&O server.

5. The system of claim 3, said unique call identification enables said wireless base station to  
10 process M&O calls without deferring processing of said calls to the Call Agent.

6. The system of Claim 4, wherein said M&O server include call processing logic for processing call  
15 requests from remote wireless M&O clients to the enterprise communication system.

7. The system of Claim 1, wherein said M&O server further includes call negotiation logic for negotiating  
20 unique call identification numbers for between the M&O server and the wireless base station to enable remote wireless M&O clients to communicate with the M&O server.

8. The system of Claim 7, wherein said remote  
25 wireless M&O clients access said wireless communication system via the internet.

9. A wireless enterprise communication system providing remote access maintenance and operation functions to a plurality of remotely coupled wireless operation and maintenance (O&M) devices, said system  
5 including a plurality of base stations, each of said plurality of base stations, comprising:

a first call processing logic unit;

a second call processing logic unit; and

an access control logic unit for setting a unique  
10 call identification number to enable the base station to distinguish between call requests from said wireless O&M devices and other wireless devices within the enterprise system.

15 10. The system of claim 9, wherein said first call processing logic processes non-operation and maintenance wireless client calls in the base station.

20 11. The system of claim 9, wherein said second call processing logic processes remote wireless O&M device call requests in the base station.

25 12. The system of claim 9, wherein said access control logic unit establishes a unique call identification number to enable the base station to distinguish between calls from the wireless O&M devices and other wireless devices using the enterprise system.

13. A enterprise wireless communication system,  
comprising

a maintenance and operations (M&O) server for  
providing wireless remote access and local operations and  
5 maintenance access to wired and wireless M&O devices;

call processing logic in said M&O server for  
processing remote call requests from said remote wireless  
M&O devices; and

access control logic unit in said M&O server for  
10 setting a unique call identification number to enable  
said remote wireless devices to communicate with the M&O  
server.

14. The enterprise system of claim 13, wherein said  
15 unique call identification number is dynamically set by  
the access control logic unit.

15. The enterprise system of claim 13, wherein said  
access control logic unit statically sets the unique call  
20 identification number.

16. The enterprise system of claim 13, wherein said  
unique identification number allows only said remote  
wireless M&O devices to transmit operation and  
25 maintenance call requests to the enterprise system.

17. In a wireless enterprise communication system having a plurality of wireless base stations, a maintenance and operations (M&O) server for facilitating maintenance and operation functions and a plurality of  
5 remote wireless M&O client systems coupled to wireless mobile devices, a method of remotely accessing said M&O server by said wireless M&O client systems, comprising the steps of:

- a) providing a unique call identification number;
- 10 b) accepting call requests from said wireless clients to remotely access said M&O server;
- c) determining whether said call requests from said wireless clients are valid request;
- d) initiating a remote call processing to said M&O  
15 server; and
- e) granting remote access to said wireless M&O client to access said M&O server.

18. The method of claim 17, wherein said step a) includes a step of negotiating between said wireless base  
20 station and said M&O server to dynamically set a call identification number to enable said M&O client initiate calls to the enterprise system.

25 19. The method of claim 17, wherein said step c) includes a step of establishing a data connection communication path between said base station and said M&O client via said mobile device.

20. The method of claim 17, wherein said step c) further includes a step of establishing a data connection communication path between said base station and said M&O server to handle call processing requests in response to  
5 maintenance and operation requests from said M&O client.

21. The method of claim 17, wherein said step d) includes a step of establishing a point-to-point communication path between the mobile device and the M&O  
10 server.

22. The method of claim 21, wherein said step d) further includes a step of establishing an internet connection between said M&O client and M&O server to  
15 allow said M&O client to utilize an internet communication language to communicate with said M&O server.